

CRF Errors Corrected by the STIC System Branch

Serial Number: 09/686,020A

CRF Processing Date: 5/15/02 #10/HR
 Edited by: DC (STIC staff) 15.28.02

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: ENTERED
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. 1647
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☒ Inserted mandatory headings, specifically: <220> in Seq. 2
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95



1600

RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/09/686,020A

TIME: 15:09:34

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

TECH CENTER 1600/2900

MAY 22 2002

RECEIVED

```

3 <110> APPLICANT: Gosling, Jennifa
4      Dairaghi, Daniel J.
5      Hanley, Michael
6      Miao, Zhenhua
7      Schall, Thomas J.
8      ChemoCentryx, Inc.
10 <120> TITLE OF INVENTION: Chemokine Receptor
12 <130> FILE REFERENCE: 019934-000710US
14 <140> CURRENT APPLICATION NUMBER: US 09/686,020A
15 <141> CURRENT FILING DATE: 2000-10-10
17 <150> PRIOR APPLICATION NUMBER: US 60/159,015
18 <151> PRIOR FILING DATE: 1999-10-12
20 <150> PRIOR APPLICATION NUMBER: US 60/159,210
21 <151> PRIOR FILING DATE: 1999-10-13
23 <150> PRIOR APPLICATION NUMBER: US 60/172,979
24 <151> PRIOR FILING DATE: 1999-12-20
26 <150> PRIOR APPLICATION NUMBER: US 60/173,388
27 <151> PRIOR FILING DATE: 1999-12-28
29 <150> PRIOR APPLICATION NUMBER: US 60/186,626
30 <151> PRIOR FILING DATE: 2000-03-03
32 <160> NUMBER OF SEQ ID NOS: 14
34 <170> SOFTWARE: PatentIn Ver. 2.1
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 1147
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
41 <220> FEATURE:
42 <221> NAME/KEY: CDS
43 <222> LOCATION: (1)..(1053)
45 <220> FEATURE:
46 <223> OTHER INFORMATION: chemokine receptor (CCX CKR)
48 <400> SEQUENCE: 1
49 atg gct ttg gaa cag aac cag tca aca gat tat tat tat gag gaa aat      48
50 Met Ala Leu Glu Gln Asn Gln Ser Thr Asp Tyr Tyr Tyr Glu Glu Asn
51   1           5           10           15
53 gaa atg aat ggc act tat gac tac agt caa tat gaa ctg atc tgt atc      96
54 Glu Met Asn Gly Thr Tyr Asp Tyr Ser Gln Tyr Glu Leu Ile Cys Ile
55           20           25           30
57 aaa gaa gat gtc aga gaa ttt gca aaa gtt ttc ctc cct gta ttc ctc      144
58 Lys Glu Asp Val Arg Glu Phe Ala Lys Val Phe Leu Pro Val Phe Leu
59           35           40           45
63 aca ata gtt ttc gtc att gga ctt gca ggc aat tcc atg gta gtg gca      192
64 Thr Ile Val Phe Val Ile Gly Leu Ala Gly Asn Ser Met Val Val Ala

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:09:34

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

65	50	55	60	
67	att tat gcc tat tac aag aaa cag aga acc aaa aca gat gtg tac atc	240		
68	Ile Tyr Ala Tyr Tyr Lys Lys Gln Arg Thr Lys Thr Asp Val Tyr Ile			
69	65 70 75 80			
71	ctg aat ttg gct gta gca gat tta ctc ctt cta ttc act ctg cct ttt	288		
72	Leu Asn Leu Ala Val Ala Asp Leu Leu Leu Leu Phe Thr Leu Pro Phe			
73	85 90 95			
75	tgg gct gtt aat gca gtt cat ggg tgg gtt tta ggg aaa ata atg tgc	336		
76	Trp Ala Val Asn Ala Val His Gly Trp Val Leu Gly Lys Ile Met Cys			
77	100 105 110			
79	aaa ata act tca gcc ttg tac aca cta aac ttt gtc tct gga atg cag	384		
80	Lys Ile Thr Ser Ala Leu Tyr Thr Leu Asn Phe Val Ser Gly Met Gln			
81	115 120 125			
83	ttt ctg gct tgt atc agc ata gac aga tat gtg gca gta act aaa gtc	432		
84	Phe Leu Ala Cys Ile Ser Ile Asp Arg Tyr Val Ala Val Thr Lys Val			
85	130 135 140			
87	ccc agc caa tca gga gtg gga aaa cca tgc tgg atc atc tgt ttc tgt	480		
88	Pro Ser Gln Ser Gly Val Gly Lys Pro Cys Trp Ile Ile Cys Phe Cys			
89	145 150 155 160			
91	gtc tgg atg gct gcc atc ttg ctg agc ata ccc cag ctg gtt ttt tat	528		
92	Val Trp Met Ala Ala Ile Leu Leu Ser Ile Pro Gln Leu Val Phe Tyr			
93	165 170 175			
95	aca gta aat gac aat gct agg tgc att ccc att ttc ccc cgc tac cta	576		
96	Thr Val Asn Asp Asn Ala Arg Cys Ile Pro Ile Phe Pro Arg Tyr Leu			
97	180 185 190			
99	gga aca tca atg aaa gca ttg att caa atg cta gag atc tgc att gga	624		
100	Gly Thr Ser Met Lys Ala Leu Ile Gln Met Leu Glu Ile Cys Ile Gly			
101	195 200 205			
103	ttt gta gta ccc ttt ctt att atg ggg gtg tgc tac ttt atc aca gca	672		
104	Phe Val Val Pro Phe Leu Ile Met Gly Val Cys Tyr Phe Ile Thr Ala			
105	210 215 220			
107	agg aca ctc atg aag atg cca aac att aaa ata tct cga ccc cta aaa	720		
108	Arg Thr Leu Met Lys Met Pro Asn Ile Lys Ile Ser Arg Pro Leu Lys			
109	225 230 235 240			
111	gtt ctg ctc aca gtc gtt ata gtt ttc att gtc act caa ctg cct tat	768		
112	Val Leu Leu Thr Val Val Ile Val Phe Ile Val Thr Gln Leu Pro Tyr			
113	245 250 255			
115	aac att gtc aag ttc tgc cga gcc ata gac atc atc tac tcc ctg atc	816		
116	Asn Ile Val Lys Phe Cys Arg Ala Ile Asp Ile Ile Tyr Ser Leu Ile			
117	260 265 270			
119	acc agc tgc aac atg agc aaa cgc atg gac atc gcc atc caa gtc aca	864		
120	Thr Ser Cys Asn Met Ser Lys Arg Met Asp Ile Ala Ile Gln Val Thr			
121	275 280 285			
125	gaa agc atc gca ctc ttt cac agc tgc ctc aac cca atc ctt tat gtt	912		
126	Glu Ser Ile Ala Leu Phe His Ser Cys Leu Asn Pro Ile Leu Tyr Val			
127	290 295 300			
129	ttt atg gga gca tct ttc aaa aac tac gtt atg aaa gtg gcc aag aaa	960		
130	Phe Met Gly Ala Ser Phe Lys Asn Tyr Val Met Lys Val Ala Lys Lys			
131	305 310 315 320			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:09:34

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

```

133 tat ggg tcc tgg aga aga cag aga caa agt gtg gag gag ttt cct ttt 1008
134 Tyr Gly Ser Trp Arg Arg Gln Arg Gln Ser Val Glu Glu Phe Pro Phe
135 325 330 335
137 gat tct gag ggt cct aca gag cca acc agt act ttt agc att taa 1053
138 Asp Ser Glu Gly Pro Thr Glu Pro Thr Ser Thr Phe Ser Ile
139 340 345 350
141 aggtaaaaact gctctgcctt ttgcttggat acatatgaat gatgctttcc cctcaaataa 1113
143 aacatctgcc ttattctgaa aaaaaaaaaa aaam 1147
146 <210> SEQ ID NO: 2
147 <211> LENGTH: 350
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
W--> 150 <220> FEATURE:
151 <223> OTHER INFORMATION: chemokine receptor (CCX CKR)
153 <400> SEQUENCE: 2
154 Met Ala Leu Glu Gln Asn Gln Ser Thr Asp Tyr Tyr Tyr Glu Glu Asn
155 1 5 10 15
156 Glu Met Asn Gly Thr Tyr Asp Tyr Ser Gln Tyr Glu Leu Ile Cys Ile
157 20 25 30
158 Lys Glu Asp Val Arg Glu Phe Ala Lys Val Phe Leu Pro Val Phe Leu
159 35 40 45
160 Thr Ile Val Phe Val Ile Gly Leu Ala Gly Asn Ser Met Val Val Ala
161 50 55 60
162 Ile Tyr Ala Tyr Tyr Lys Lys Gln Arg Thr Lys Thr Asp Val Tyr Ile
163 65 70 75 80
164 Leu Asn Leu Ala Val Ala Asp Leu Leu Leu Leu Phe Thr Leu Pro Phe
165 85 90 95
166 Trp Ala Val Asn Ala Val His Gly Trp Val Leu Gly Lys Ile Met Cys
167 100 105 110
168 Lys Ile Thr Ser Ala Leu Tyr Thr Leu Asn Phe Val Ser Gly Met Gln
169 115 120 125
170 Phe Leu Ala Cys Ile Ser Ile Asp Arg Tyr Val Ala Val Thr Lys Val
171 130 135 140
172 Pro Ser Gln Ser Gly Val Gly Lys Pro Cys Trp Ile Ile Cys Phe Cys
173 145 150 155 160
174 Val Trp Met Ala Ala Ile Leu Leu Ser Ile Pro Gln Leu Val Phe Tyr
175 165 170 175
176 Thr Val Asn Asp Asn Ala Arg Cys Ile Pro Ile Phe Pro Arg Tyr Leu
177 180 185 190
178 Gly Thr Ser Met Lys Ala Leu Ile Gln Met Leu Glu Ile Cys Ile Gly
179 195 200 205
180 Phe Val Val Pro Phe Leu Ile Met Gly Val Cys Tyr Phe Ile Thr Ala
181 210 215 220
182 Arg Thr Leu Met Lys Met Pro Asn Ile Lys Ile Ser Arg Pro Leu Lys
183 225 230 235 240
184 Val Leu Leu Thr Val Val Ile Val Phe Ile Val Thr Gln Leu Pro Tyr
185 245 250 255
188 Asn Ile Val Lys Phe Cys Arg Ala Ile Asp Ile Ile Tyr Ser Leu Ile
189 260 265 270

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:09:34

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

```

190 Thr Ser Cys Asn Met Ser Lys Arg Met Asp Ile Ala Ile Gln Val Thr
191          275          280          285
192 Glu Ser Ile Ala Leu Phe His Ser Cys Leu Asn Pro Ile Leu Tyr Val
193          290          295          300
194 Phe Met Gly Ala Ser Phe Lys Asn Tyr Val Met Lys Val Ala Lys Lys
195 305          310          315          320
196 Tyr Gly Ser Trp Arg Arg Gln Arg Gln Ser Val Glu Glu Phe Pro Phe
197          325          330          335
198 Asp Ser Glu Gly Pro Thr Glu Pro Thr Ser Thr Phe Ser Ile
199          340          345          350
203 <210> SEQ ID NO: 3
204 <211> LENGTH: 1147
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapiens
208 <220> FEATURE:
209 <223> OTHER INFORMATION: chemokine receptor (variant)
211 <400> SEQUENCE: 3
212 atggcctttgg aacagaacca gtcaacagat tattattatg aggaaagtga aatgaatggc 60
213 actgatgact acagtcagta tgaactgata tgtatcaaag aagatgtcag agaatttgcc 120
214 aaagttttcc cccctgtatt cctcacaata gttttcgta ttggacttgc aggcaattcc 180
215 atggtagtgg caatttatgc ctattacaag aaacagagaa ccaaaacaga tgtgtacatc 240
216 ctgaatttgg ctgtagcaga ttactcctt ctattcaactc tgcctttttg ggctgttaat 300
217 gcagttcatg ggtgggtttt agggaaaata atgtgcaaaa taacttcagc cttgtacaca 360
218 ctaaaactttg tctctggaat gcagtttctg gcttgatca gcatagacag atatgtggca 420
219 gtaactaaag tccccagcca atcaggagtg ggaaaacat gctggatcat ctgtttctgt 480
220 gtctggatgg ctgccatctt gctgagcata cccagctgg ttttttatac agtaaatgac 540
221 aatgtaggtt gcattcccat tttccccgc aacttaggaa catcaatgaa agcattgatt 600
222 caaatgctag agatctgcat tggatttcta gtaccctttc ttattatggg ggtgtgctac 660
223 tttatcacag caaggacact catgaagatg ccaaacatta aaatatctcg acccctaaaa 720
224 gttctgctca cagtcgttat agttttcatt gtcactcaac tgccttataa cattgtcaag 780
225 ttctgccgag ccatagacat catctactcc ctgatcacca gctgcaacat gagcaaacgc 840
226 atggacatcg ccatccaagt cacagaaagc atgcactct ttcacagctg cctcaaccca 900
227 atccttttat tttttatggg agcatctttc aaaaactacg ttatgaaagt ggccaagaaa 960
228 tatgggtcct ggagaagaca gagacaaagt gtggaggagt ttcttttga ttctgagggt 1020
229 cctacagagc caaccagtac ttttagcatt taaaggtaaa actgctctgc cttttgcttg 1080
230 gatacatatg aatgatgctt tcccctcaaa taaaacatct gccttattct gaaaaaaaaa 1140
231 aaaaaam 1147
234 <210> SEQ ID NO: 4
235 <211> LENGTH: 25
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
242 <400> SEQUENCE: 4
243 aatttgctg tagcagattt actcc 25
248 <210> SEQ ID NO: 5
249 <211> LENGTH: 19
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/09/686,020A

TIME: 15:09:34

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
 256 <400> SEQUENCE: 5 19
 257 gctaaaagta ctggttggc
 260 <210> SEQ ID NO: 6
 261 <211> LENGTH: 369
 262 <212> TYPE: PRT
 263 <213> ORGANISM: Homo sapiens
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: chemokine receptor (CCR9)
 268 <400> SEQUENCE: 6
 269 Met Thr Pro Thr Asp Phe Thr Ser Pro Ile Pro Asn Met Ala Asp Asp
 270 1 5 10 15
 272 Tyr Gly Ser Glu Ser Thr Ser Ser Met Glu Asp Tyr Val Asn Phe Asn
 273 20 25 30
 275 Phe Thr Asp Phe Tyr Cys Glu Lys Asn Asn Val Arg Gln Phe Ala Ser
 276 35 40 45
 278 His Phe Leu Pro Pro Leu Tyr Trp Leu Val Phe Ile Val Gly Ala Leu
 279 50 55 60
 281 Gly Asn Ser Leu Val Ile Leu Val Tyr Trp Tyr Cys Thr Arg Val Lys
 282 65 70 75 80
 284 Thr Met Thr Asp Met Phe Leu Leu Asn Leu Ala Ile Ala Asp Leu Leu
 285 85 90 95
 287 Phe Leu Val Thr Leu Pro Phe Trp Ala Ile Ala Ala Ala Asp Gln Trp
 288 100 105 110
 290 Lys Phe Gln Thr Phe Met Cys Lys Val Val Asn Ser Met Tyr Lys Met
 291 115 120 125
 293 Asn Phe Tyr Ser Cys Val Leu Leu Ile Met Cys Ile Ser Val Asp Arg
 294 130 135 140
 296 Tyr Ile Ala Ile Ala Gln Ala Met Arg Ala His Thr Trp Arg Glu Lys
 297 145 150 155 160
 299 Arg Leu Leu Tyr Ser Lys Met Val Cys Phe Thr Ile Trp Val Leu Ala
 300 165 170 175
 302 Ala Ala Leu Cys Ile Pro Glu Ile Leu Tyr Ser Gln Ile Lys Glu Glu
 303 180 185 190
 305 Ser Gly Ile Ala Ile Cys Thr Met Val Tyr Pro Ser Asp Glu Ser Thr
 306 195 200 205
 310 Lys Leu Lys Ser Ala Val Leu Thr Leu Lys Val Ile Leu Gly Phe Phe
 311 210 215 220
 313 Leu Pro Phe Val Val Met Ala Cys Cys Tyr Thr Ile Ile Ile His Thr
 314 225 230 235 240
 316 Leu Ile Gln Ala Lys Lys Ser Ser Lys His Lys Ala Leu Lys Val Thr
 317 245 250 255
 319 Ile Thr Val Leu Thr Val Phe Val Leu Ser Gln Phe Pro Tyr Asn Cys
 320 260 265 270
 322 Ile Leu Leu Val Gln Thr Ile Asp Ala Tyr Ala Met Phe Ile Ser Asn
 323 275 280 285
 325 Cys Ala Val Ser Thr Asn Ile Asp Ile Cys Phe Gln Val Thr Gln Thr
 326 290 295 300

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:09:35

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

L:150 M:283 W: Missing Blank Line separator, <220> field identifier



Does Not Comply
Corrected Diskette Needed

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:04:31

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

3 <110> APPLICANT: Gosling, Jennifa
 4 Dairaghi, Daniel J.
 5 Hanley, Michael
 6 Miao, Zhenhua
 7 Schall, Thomas J.
 8 ChemoCentryx, Inc.
 10 <120> TITLE OF INVENTION: Chemokine Receptor
 12 <130> FILE REFERENCE: 019934-000710US
 14 <140> CURRENT APPLICATION NUMBER: US 09/686,020A
 15 <141> CURRENT FILING DATE: 2000-10-10
 17 <150> PRIOR APPLICATION NUMBER: US 60/159,015
 18 <151> PRIOR FILING DATE: 1999-10-12
 20 <150> PRIOR APPLICATION NUMBER: US 60/159,210
 21 <151> PRIOR FILING DATE: 1999-10-13
 23 <150> PRIOR APPLICATION NUMBER: US 60/172,979
 24 <151> PRIOR FILING DATE: 1999-12-20
 26 <150> PRIOR APPLICATION NUMBER: US 60/173,388
 27 <151> PRIOR FILING DATE: 1999-12-28
 29 <150> PRIOR APPLICATION NUMBER: US 60/186,626
 30 <151> PRIOR FILING DATE: 2000-03-03
 32 <160> NUMBER OF SEQ ID NOS: 14
 34 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

654 <210> SEQ ID NO: 14
 655 <211> LENGTH: 11
 656 <212> TYPE: PRT
 657 <213> ORGANISM: Homo sapiens
 659 <220> FEATURE:
 660 <223> OTHER INFORMATION: translation of non-coding region of SEQ ID NO:1
 662 <400> SEQUENCE: 14
 663 Asn Ile Cys Leu Ile Leu Lys Lys Lys Lys Lys
 664 1 5 10

E--> 669 Footnote continued from previous page
 E--> 670 Footnote continued on next page
 E--> 671 3
 E--> 672 1

— delete

FI: please submit only 1 file

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/686,020A

DATE: 05/15/2002

TIME: 15:04:32

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05152002\I686020A.raw

L:150 M:283 W: Missing Blank Line separator, <220> field identifier
L:669 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:669 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:5
L:670 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14
L:670 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:670 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:5
M:332 Repeated in SeqNo=14
L:672 M:252 E: No. of Seq. differs, <211> LENGTH:Input:11 Found:21 SEQ:14